



U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

**INFORMATION DISCLOSURE  
STATEMENT**

Docket Number:  
**10434/60901**

Application Number  
**10/699,097**

Filing date  
**October 30, 2003**

Examiner  
**To Be Assigned**

Art Unit  
**2878**

Invention Title  
**METHOD FOR LOADING AND UNLOADING  
MACROMOLECULES FROM MICROFLUIDIC  
DEVICES**

Inventor(s)  
**HUANG et al.**

Address to:  
Mail Stop Amendment  
Commissioner for Patents  
P. O. Box 1450  
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I hereby certify that this correspondence is being deposited with the  
United States Postal Service with sufficient postage as first class mail in an  
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Box 1450, Alexandria, VA 22313-1450 on:

Date:

By:

*Elizabeth Miller*  
Patrick J. Birde (Reg. No. 29,770)  
S. Elizabeth Miller

1. In accordance with the duty of disclosure under 37 C.F.R. § 1.56 and in conformance with the procedures of 37 C.F.R. §§ 1.97 and 1.98 and M.P.E.P. § 609, attorneys for Applicant hereby brings the attached references to the attention of the Examiner. These references are listed on the attached modified PTO Form No. 1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.
2. The filing of this Information Disclosure Statement and the attached PTO Form No. 1449, shall not be construed as an admission that the information cited is prior art, or is considered to be material to patentability as defined in 37 C.F.R. § 1.56(b).
3. A copy of each patent, publication or other information listed on the modified PTO form 1449 are enclosed.
4. It is believed that no fees are due in connection with this Information Disclosure Statement. However, should any fees be due, the Commissioner is authorized to charge or credit any over payment to Deposit Account No. 11-0600. A duplicate copy of this communication is enclosed for charging purposes.

Dated:

*8 Dec 04*

By:

*Patrick J. Birde*  
Patrick J. Birde (Reg. No. 29,770)

KENYON & KENYON  
One Broadway  
New York, N.Y. 10004  
(212) 425-7200 (Telephone)  
(212) 425-5288 (Facsimile)  
CUSTOMER NO. 26646



INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
PTO FORM 1449

ATTY. DOCKET NO.  
10434/60901

SERIAL NO.  
10/699,097

APPLICANT:  
HUANG et al.  
FILING DATE  
October 30, 2003

GROUP  
2878

U. S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS	SUBCLASS	FILING DATE
	6,203,683	March 20, 2001	Austin et al.			
	4,959,133	September 25, 1990	Adock, M.W.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS

EXAMINER INITIAL	AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.
	Huang, L.R., Silberzan, P., Tegenfeldt, J.O., Cox, e.C., Strum, J.C., Austin, R.H. and Craighead, H. Role, Phys. Rev. Lett. 89, 178301 (2002)
	Kurien, B.T. et al., Biochem. 302, 1-9 (2002)
	Becker, E.W. et al., Microelectronic Engineering 4 (1986), pages 35-56
	Becker, E.W. et al., J. Micromech, Microeng. 8 (1998, pp. 24-28
	Kim, Y. et al., Rapid Pulsed Field Capillary Electrophoretic Separation of Megabase Nucleic Acids. Anal Chem. 67, 784-786 (1995)
	Han, J. & Craighead, H.G. Separation of Long DNA Molecules in a microfabricated entropic trap array. Science 288, 1026-1029 (2000)
	Turner, S.W., et al., Confinement-induced entropic recoil of single DNA molecules in a nanofluidic structure, Phys. Rev. Lett. 2002 March 25, 88(12):128103
	Huang, L.R. et al., A DNA prism for high-speed continuous fractionation of large DNA molecules Nat Biotechnol. 2002 Oct; 20(10):1048-51
	Huang, L.R. et al., Role of molecular size in ratchet fractionation. Phys. Rev. Lett. 89, 178301 (2002)
	Cao, H. et al., Fabrication of 10nm Enclosed Nanofluidic Channels, Applied Physics Letters 81, 174, (2002)
	Tegenfeldt, J.O. et al., Near-Field Scanner for Moving Molecules, Physical Review Letters 86 (7), 1378 (2001)
	Miesfeld, R.L., Applied Molecular Genetics (Wiley, New York, NY 1999) pp. 95-97
	Chou, S.Y., et al., Imprint Lithography with 25-Nanometer Resolution, Science 272, 85 (1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.